PII: S0736-5845(03)00087-5

CONTENTS OF VOLUME 19

Numbers 1–2

	1	Editorial
Gunter Henn	3	Industry on the move: the architecture of change
L. Wang, R. Sams, M. Verner and **F. Xi**	13	Integrating Java 3D model and sensor data for remote monitoring and control
R. Logendran, C. A. Gelogullari and **C. Sriskandarajah**	21	Minimizing the mean flow time in a two-machine group-scheduling problem with carryover sequence dependency
N. G. Odrey and **G. Mejia**	35	A re-configurable multi-agent system architecture for error recovery in production systems
M. A. Gamila and **S. Motavalli**	45	A modeling technique for loading and scheduling problems in FMS
M. Brezocnik, J. Balic and **Z. Brezocnik**	55	Emergence of intelligence in next-generation manufacturing systems
K.-J. Wang and **C.-F. Chien**	65	Designing an Internet-based group decision support system
G. M. Bone and **D. Capson**	79	Vision-guided fixtureless assembly of automotive components
P. Lambert, A. Valentini, B. Lagrange, P. De Lit and **A. Delchambre**	89	Design and performances of a one-degree-of-freedom guided nano-actuator
M. Milfelner and **F. Cus**	99	Simulation of cutting forces in ball-end milling
S. Werner, M. Kellner, E. Schenk and **G. Weigert**	107	Just-in-sequence material supply—a simulation based solution in electronics production
F. Cus and **J. Balic**	113	Optimization of cutting process by GA approach
M. Bellgran and **E. Aresu**	123	Handling disturbances in small volume production
M. Oppermann, W. Sauer and **H. Wohlrabe**	135	Optimization of quality costs
A. Beschorner and **D. Glüer**	141	MaxFlow theory for availability calculation of automated material handling systems
A. Lambiase and **S. Miranda**	147	Performance parameters optimization of a pneumatic programmable palletizer using Taguchi method
S. C. L. Koh and **S. M. Saad**	157	MRP-controlled manufacturing environment disturbed by uncertainty
D.-W. Kim, D.-G. Na and **F. F. Chen**	173	Unrelated parallel machine scheduling with setup times and a total weighted tardiness objective
M. Haller, A. Peikert and **J. Thoma**	183	Cycle time management during production ramp-up
U. Zuperl and **F. Cus**	189	Optimization of cutting conditions during cutting by using neural networks
H. Golnabi	201	Role of laser sensor systems in automation and flexible manufacturing

N. Vandaele and **L. De Boeck** 211 Advanced Resource Planning

F. Caliò, G. Moroni and **M. Rasella** 219 A particular class of spline in reconstruction of revolution surfaces from 3-D data measured by CMM

Number 3

A. Portioli-Staudacher, H. Van Landeghem, M. Mappelli and **C. E. Redaelli** 225 Implementation of concurrent engineering: a survey in Italy and Belgium

L. Gzara, D. Rieu and **M. Tollenaere** 239 Product information systems engineering: an approach for building product models by reuse of patterns

H.-k. Huang and **G. I. Lin** 263 Rapid and flexible prototyping through a dual-robot workcell

J. S. Surdhar and **A. S. White** 273 A parallel fuzzy-controlled flexible manipulator using optical tip feedback

M. D. Naish, E. A. Croft and **B. Benhabib** 283 Coordinated dispatching of proximity sensors for the surveillance of manoeuvring targets

Numbers 4

H. Zhuang, S. H. Motaghedi, Z. S. Roth and **Y. Bai** 301 Calibration of multi-beam laser tracking systems

X. W. Xu and **T. Liu** 315 A web-enabled PDM system in a collaborative design environment

H.-S. Yan, Z. Wang and **X.-C. Jiao** 329 Modeling, scheduling and simulation of product development process by extended stochastic high-level evaluation Petri nets

X. Zhou and **D. M. Gaines** 343 ARM: A tool for identifying and repairing un-machinable shapes in designs

Y.-H. Yao, A. J. C. Trappey and **P.-S. Ho** 355 XML-based ISO9000 electronic document management system

Y.-M. Chen, C.-C. Wen and **C. T. Ho** 371 Extraction of geometric characteristics for manufacturability assessment

Numbers 5

E.J. González-Galván, S.R. Cruz-Ramírez, M.J. Seelinger and **J.J. Cervantes-Sánchez** 387 An efficient multi-camera, multi-target scheme for the three-dimensional control of robots using uncalibrated vision

M. Liu and **C. Wu** 401 Scheduling algorithm based on evolutionary computing in identical parallel machine production line

S.F. Huin, L.H.S. Luong and **K. Abhary** 409 Knowledge-based tool for planning of enterprise resources in ASEAN SMEs

M.K. Tiwari and **D. Roy** 415 Solving a part classification problem using simulated annealing-like hybrid algorithm

X. Liao and **G.G. Wang** 425 Evolutionary path planning for robot assisted part handling in sheet metal bending

M. Seidl and **G. Schmidt** 431 Fault-tolerant and maximally-permissive FMS controllers right out of the box—an automatic design approach

C. Mascle and **B.-A. Balasoiu** 439 Algorithmic selection of a disassembly sequence of a component by a wave propagation method

H.A. Gabbar, H. Yamashita, K. Suzuki and **Y. Shimada** 449 Computer-aided RCM-based plant maintenance management system

Numbers 6

SPECIAL ISSUE: Leadership of the Future in Manufacturing

459 Editorial

H. Kaebernick, S. Kara and **M. Sun** 461 Sustainable product development and manufacturing by considering environmental requirements

D. Creighton and **S. Nahavandi** 469 Application of discrete event simulation for robust system design of a melt facility

J. Wang, Y.S. Wong, K.S. Lee, X. Huang, Q. Liao, H.T. Loh and **Z. Liu** 479 Domain-specific portal for the precision component and tooling industry in Singapore—needs analysis and a test-bed implementation

B. Li, Z. Jiang and **Y. Luo** 493 Measurement of three-dimensional profiles with multi structure linear lighting

J. Lee 501 E-manufacturing—fundamental, tools, and transformation

W.A. Estrem 509 An evaluation framework for deploying Web Services in the next generation manufacturing enterprise

G.L. Nigro, S.N.L. Diega, G. Perrone and **P. Renna** 521 Coordination policies to support decision making in distributed production planning

G. Jin and **V. Thomson** 533 A new framework for MRP systems to be effective in engineered-to-order environments

R.S. Lee, J.P. Tsai, Y.C. Kao, G.C.I. Lin and **K.C. Fan** 543 STEP-based product modeling system for remote collaborative reverse engineering

K. Kawamura, T.E. Rogers, K.A. Hambuchen and **D. Erol** 555 Towards a human–robot symbiotic system

I.-S. Kim, J.-S. Son and **P.K.D.V. Yarlagadda** 567 A study on the quality improvement of robotic GMA welding process

VI List of Contents/Author Index for volume 19